Fort Laramie National Historic Site, Accuracy Assessment Metadata

Identification_Information:
Citation:
Citation_Information:
Originator: U.S. Geological Survey
Originator: Department of the Interior
Publication_Date: 199905
Title: Fort Laramie National Historic Site Accuracy Assessment
Geospatial_Data_Presentation_Form: database and report
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Fort Laramie National Historic Site
Publication_Information:
Publication_Place: Denver, CO
Publisher: USGS Biological Resources Division, Center for Biological Informatics
Online_Linkage: http://biology.usgs.gov/npsveg/fola/index.html#accuracy_assessment_info
Larger_Work_Citation:
Citation_Information:
Originator: US Dept of Interior
Originator: National Biological Service)
Originator: and National Park Service
Publication_Date: 199411
Title: Field Assessment Procedures
Geospatial_Data_Presentation_Form: document
Edition: Final Draft
Publication_Information:
Publication_Place: Denver, CO
Publisher: USGS/BRD/Center for Biological Informatics
Other_Citation_Details:
Report prepared under contract by the the USGS Center for Biological Informatics in cooperation with Environmental Systems Research Institute, 380 New York Street, Redlands, CA.
Online_Linkage: http://biology.usgs.gov/npsveg/fola/pi_rpt.pdf#assessment
Description:
Abstract:
The accuracy assessment field work was performed in August and September, 1998 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Fort Laramie National Historic Site. The data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program. Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data. The data points were compared to the attributes of the polygon in which they were contained. Attributes of the polygons or accuracy assessment points that did not match were changed during later analysis due to errors in the AA methodology or map attribution errors. A contingency table was completed from the final dataset.
Purpose:
To verify the accuracy of the mapped vegetation communities at Fort Laramie National Historic Site.
Time_Period_of_Content:
Time_Period_Information:

Single_Date/Time:
Calendar_Date: 199808
Currentness_Reference: Ground Condition
Status:
Progress: Complete
Maintenance_and_Update_Frequency: None Planned
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -104.5769
East_Bounding_Coordinate: -104.5269
North_Bounding_Coordinate: 42.225
South_Bounding_Coordinate: 41.18889
Description_of_Geographic_Extent: Fort Laramie National Historic Site, Wyoming, USA
Keywords:
Theme:
Theme_Keyword_Thesaurus: none
Theme_Keyword: National Park Service
Theme_Keyword: U.S. Geological Service
Theme_Keyword: The Nature Conservancy
Theme_Keyword: Aerial Information Systems
Theme_Keyword: Center for Biological Informatics
Theme_Keyword: land cover
Theme_Keyword: vegetation
Theme_Keyword: alliance
Theme_Keyword: association
Theme_Keyword: Environmental System Research Institute
Place:
Place_Keyword_Thesaurus: none
Place_Keyword: Fort Laramie National Historic Site
Place_Keyword: Wyoming
Taxonomy:
Keywords/Taxon:
Taxonomic_Keyword_Thesaurus: None
Taxonomic_Keywords: Standardized National Vegetation Classification System
Taxonomic_Keywords: vegetation classification
Taxonomic_Keywords: alliance
Taxonomic_Keywords: community association
Taxonomic_Classification:
Taxon_Rank_Name: Kingdom
Taxon_Rank_Value: Plantae
Access_Constraints: None
Use_Constraints:
Any person using the information presented here should fully understand the data collection and compilation procedures, as described in these metadata, before beginning analysis. The burden for determining fitness for use lies entirely with the user. For purposes of publication or dissemination, citations should be given to the U.S. Geological Survey and the National Park Service.
Point_of_Contact:
Contact_Information:
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Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator
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USGS Biological Resources Division, Center for Biological Informatics
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Address_Type: Physical Address

Address: USGS
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Address: USGS
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Contact_Facsimile_Telephone: 303-202-4219 (org)
Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
Browse_Graphic:
Browse_Graphic_File_Name: http//biology.usgs.gov.npsveg/fola/images/folaaa.jpg
Browse_Graphic_File_Description:
309 Kbyte file showing vegetation associations and location of accuracy assessment points
Browse_Graphic_File_Type: JPG
Security_Information:
Security_Classification_System: None
Security_Classification: None
Security_Handling_Description: None
Native_Data_Set_Environment: UNIX-ARC/INFO

Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report:
The attributes for the accuracy assessment were recorded in the field in August, 1997. Vegetation associations were identified based on the field key and plant identification. If additional communities were found within a 50 meter radius of the plot center, they were recorded as well. During the analysis, it was concluded that some attributes were in error and changed to match the mapped attributes. This was done by examination of the aerial photographs under stereoscopic view. The attributes were in error due to 1) spatial error in the GPS derived coordinates (4-8 meters), 2) change of vegetation community due to temporal changes, or mis-identification of the community on the ground.
Logical_Consistency_Report:
All attributes are codes that correspond to vegetation communities and have been checked for typographical and logical errors.
Completeness_Report: All points were collected and analyzed.
Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report:
The points were located using a military-style GPS receiver (PLGR), which has a published accuracy of 4-8 meters.
Vertical_Positional_Accuracy:
Vertical_Positional_Accuracy_Report: Not applicable
Lineage:

Methodology:
Methodology_Type: Field
Methodology_Identifier:
Methodology_Keyword_Thesaurus: None
Methodology_Keyword: Accuracy Assessment
Methodology_Description:
Data points were located by use of a PLGR GPS receiver by Wyoming Natural Heritage Program and Fort Laramie National Historic Site personnel. Vegetation communities were identified on the basis of a dichotomous field key and plants species present.
Methodology:
Methodology_Type: Lab
Methodology_Identifier:
Methodology_Keyword_Thesaurus: None
Methodology_Keyword: Accuracy Assessment
Methodology_Description:
Accuracy assessment points were compiled into an ARCINFO point coverage and intersected with the vegetation community coverage. The resulting INFO file was exported into a text file, imported into a spreadsheet, and the attributes from the accuracy assessment and the spatial data were compared. If the attributes did not compare, an analysis of the mismatch was made and either the AA attribute or the map attribute was changed based on identification of the community on the aerial photo.
Source_Information:
Source_Citation:
Citation_Information:
Originator: USGS-Biological resources Division
Originator: U.S. National Park
Originator: Depatment of the Interior
Publication_Date: 199411
Title: Accuracy Assessment Procedures, NBS/NPS Vegetation Mapping Program
Geospatial_Data_Presentation_Form: document
Publication_Information:
Publication_Place: Denver, CO
Publisher: USGS, Biological Resources Division, Center for Biological Informatics
Other_Citation_Details:
Prepared by: Environmental Systems Research Institute, Inc. Redlands, CA and National Center of Geographic Information and Analysis, University of California, Santa Barbara, CA and The Nature Conservancy, Arlington, VA under contract rom U.S. Department of the Interior Biological Resources Division and National Park Service.
Type_of_Source_Media: electronic document
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 199411
Ending_Date: Present
Source_Currentness_Reference: publication date
Source_Citation_Abbreviation: Accuracy Assessment Procedures Document
Source_Contribution:
This document established the procedures and protocols for the accuracy assessment at Fort Laramie National Historic Site.
Source_Information:
Source_Citation:
Citation_Information:

Originator: U.S. Geological Survey
Originator: Department of the Interior
Publication_Date: 199809
Title:
Fort Laramie National Historic Site Spatial Vegetation Data: Cover type / Association level of the National Vegetation Classification System
Geospatial_Data_Presentation_Form: document
Series_Information:
Series_Name: USGS-NPS Vegetation Mapping Program
Issue_Identification: Fort Laramie National Historic Site
Publication_Information:
Publication_Place: Denver, CO
Publisher: USGS, Biological Resources Division, Center for Biological Informatics
Other_Citation_Details:
Created in large part by Environmental Systems Research Institute, Inc. Redlands, CA under contract rom USGS/BRD/CBI.
Type_of_Source_Media: Disc
Source_Time_Period_of_Content:
Time_Period_Information:
Single_Date/Time:
Calendar_Date: 199808
Source_Currentness_Reference: ground condition
Source_Citation_Abbreviation:
Spatial data of vegetation communities for Fort Laramie National Historic Site.
Source_Contribution:
The vegetation spatial data were tested for accuracy with the AA data.
Process_Step:
Process_Description:
The accuracy assessment field work was performed in June 1997 to verify the accuracy of the vegetation communities spatial data developed by the USGS-NPS Vegetation Mapping Program for Fort Laramie National Historic Site. the data points were randomly distributed stratified according to vegetation association over the project area according to protocols developed by the Program. Points were located by GPS navigation and the community information was collected at the point, without knowledge of the attributes of the vegetation spatial data.
Source_Used_Citation_Abbreviation: Spatial data of vegetation communities for Fort Lararmie National Historic Site.
Source_Used_Citation_Abbreviation: Accuracy Assessment Procedure Document
Process_Date: 199706

Spatial_Data_Organization_Information:
Indirect_Spatial_Reference:
The ecology field sites were digitized to indicate the area for which a TNC ecologist conducted an ecological field sampling.
Direct_Spatial_Reference_Method: Point
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Point

Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Planar:
Grid_Coordinate_System:
Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:
UTM_Zone_Number: 13
Transverse_Mercator:
Longitude_of_Central_Meridian: -105
Latitude_of_Projection_Origin: 0
False_Easting: 50000
False_Northing: 0
Scale_Factor_at_Central_Meridian: .9996
Planar_Coordinate_Information:
Planar_Coordinate_Encoding_Method: coordinate pair
Coordinate_Representation:
Abscissa_Resolution: 1
Ordinate_Resolution: 1
Planar_Distance_Units: meters
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodedic Reference System 80
Semi-major_Axis: 6378137
Denominator_of_Flattening_Ratio: 298.257

Entity_and_Attribute_Information:
Overview_Description:
Entity_and_Attribute_Overview:
The system is organized hierarchically to support conservation and resource stewardship applications across multiple scales. The upper levels of the hierarchey are based on the physical form or structure of the vegetation (physiognomy) and have been refined from the international standards developed by the United Nations Educational, Scientific, and Cultural Organization (UNESCO). The two most detailed levels of the hierearchy are based on the species composition of the existing vegetation (floristics) and reflect the phyto-sociological standards that were originally developed by European ecologists. The vegetation classification is continually advanced through the collection and analysis of new field data and will be greatly strengthened during the course of the NBS/NPS mapping efforts. National Park Service/Biological Resources Division Vegetation Inventory and Mapping Program for Fort Laramie National Historic Site, Wyoming, Final Community Association Classification, September 4, 1998. Alliance/Community 01=Populus Deltoides Temporarily Flooded Woodland Alliance Populus deltoides / Symphoricarpos occidentalis Woodland 02=Pinus Ponderosa Wooded Medium-Tall Herbaceous Alliance Pinus ponderosa - Schizachyrium scoparium Wooded Herbaceous Vegetation 03=Not Used 04=Salix Exigua Temporarily Flooded Shrubland Alliance Salix exigua Shrubland 05=Stipa Comata Bunch Herbaceous Alliance Stipa comata - Yucca glauca Herbaceous Vegetation 06=Typha (Angustifolia, Latifolia) - (Scirpus spp.) Semipermanently Flooded Herbaceous Alliance Typha latifolia Western Herbaceous Vegetation 07=Spartina Pectinata Temporarily Flooded Herbaceous Alliance Spartina pectinata - Scirpus pungens Herbaceous Vegetation 08=Carex Nebrascensis Seasonally Flooded Herbaceous Alliance Carex nebrascencis Herbaceous Vegetation 09=Alliance Undefined Bromus enermis Disturbed Herbaceous Vegetation 10=Alliance Undefined Upland Weedy Herbaceous Vegetation 11=Pascopyrum Smithii Herbaceous Alliance Pascopyrum smithii Herbaceous Vegetation 12=Stipa Comata - Bouteloua Gracilis Herbaceous Alliance Stipa comata - Bouteloua gracilis - Carex filifolia Herbaceous Vegetation 13=Alliance Undefined Sporobolus cryptandrus Disturbed Herbaceous Vegetation 14=Sand Flats

Temporarily Flooded Sparse Vegetation Riverine Sand Flats - Bar Sparse Vegetation 15=Alliance Undefined Upland Sand and Gravel Sparse Vegetation 16=Bouteloua Gracilis Herbaceous Alliance Bouteloua gracilis - Carex filifolia Herbaceous Vegetation 17=Rock Outcrop / Butte Sparse Vegetation Sandstone Rock Outcrop Sparse Vegetation 98 =Water Body 99=Urban/Built-Up/Maintained Lawn/Canal/Road/Mowed Road ROW/Cut and Fill.

Entity_and_Attribute_Detail_Citation:
Grossman, D. Et al. 1994. National Park Service Vegetation Mapping Project, Standardized National Vegetation Classificatrion System 209 pp.

Distribution_Information:
Distributor:
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Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator
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Address_Type: Physical Address
Address: USGS Biological Resources
Address: Center for Biological Informatics
Address: Denver Federal Center, Building 810
Address: Room 8000, MS302
City: Denver
State_or_Province: CO
Postal_Code: 80225-0046
Country: USA
Contact_Voice_Telephone: (303) 202-4220
Contact_Facsimile_Telephone: 303-202-4219 (org)
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Resource_Description: FOLA Accuracy Assessment
Distribution_Liability:
Although these data have been processed successfully on a computer system at the U.S. Geological Survey, no warranty expressed or implied is made regarding the accuracy or utility of the data on any other system or for general or scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies both to individual use of the data and aggregate use with other data. It is strongly recommended that these data are directly acquired from a U.S. Geological Survey server, and not indirectly through other sources which may have changed the data in some way. It is also strongly recommended that careful attention be paid to the contents of the metadata file associated with these data. The U.S. Geological Survey shall not be held liable for improper or incorrect use of the data described and/or contained herein.
Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: HTML
Digital_Transfer_Option:
Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name: http://biology.usgs.gov/npsveg/fola/index.html#accuracy_assessment_info
Fees: None

Metadata_Reference_Information:
  Metadata_Date: 20011022
  Metadata_Review_Date: 20060831
  Metadata_Contact:
    Contact_Information:
      Contact_Organization_Primary:
        Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator
      Contact_Address:
        Address_Type: mailing and physical address
        Address:
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          Room 8000, Building 810, Denver Federal Center
        City: Denver
        State_or_Province: Colorado
        Postal_Code: 80225
        Country: USA
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      Contact_Facsimile_Telephone: (303) 202-4219
      Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov
  Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1:
      Biological Data Profile, 1999
  Metadata_Standard_Version: FGDC-STD-001-1998
  Metadata_Extensions:
    Online_Linkage: http://biology.usgs.gov/fgdc.bio/bionwext.txt
    Profile_Name: Biological Data Profile FGDC-STD-001.1-1999